



1998 Toxics Release Inventory

UTAH

Reported Releases and Waste Management Activities (in pounds)

	Original Industries	New Industries	Total
On-site Releases	98,488,814	474,524,093	573,012,907
Air Emissions	61,208,838	3,529,068	64,737,906
Surface Water Discharges	1,131,818	14,940	1,146,758
Underground Injection Class I Wells	0	0	0
Underground Injection Class II-V Wells	0	0	0
On-site Land Releases to RCRA Subtitle C Landfills	11,158	15,535,167	15,546,325
Other On-site Land Releases	36,137,000	455,444,918	491,581,918
Off-site Releases (Transfers Off-site to Disposal)*	947,423	265,175	1,212,598
Total On- and Off-site Releases	99,436,237	474,789,268	574,225,505
Recycled On-site	1,596,040	6,039,400	7,635,440
Recycled Off-site	2,756,858	0	2,756,858
Energy Recovery On-site	25,386,759	0	25,386,759
Energy Recovery Off-site	159,747	15,603	175,350
Treated On-site	231,471,430	60,558,619	292,030,049
Treated Off-site**	900,241	72,506	972,747
Quantity Released On- and Off-site***	97,487,844	479,398,166	576,886,010
Total Production-related Waste Managed	359,758,919	546,084,294	905,843,213
Total Non-production-related Waste Managed	8,754,117	63	8,754,180

Transfers Off-site for Further Waste Management/Disposal

Recycling	2,686,740	0	2,686,740
Energy Recovery	157,713	16,106	173,819
Treatment	579,977	56,680	636,657
Publicly Owned Treatment Works (POTWs)	355,360	0	355,360
Metals and Metal Compounds*	2,581	0	2,581
Non-metal TRI Chemicals**	352,779	0	352,779
Other Off-site Transfers***	0	0	0
Off-site Transfers to Disposal (not including metals to POTWs)	7,761,104	500,041	8,261,145
Total Transfers Off-site for Further Waste Management/Disposal	11,540,894	572,827	12,113,721

* Transfers to POTWs of metals and metal compounds are included in off-site releases. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Transfers to POTWs of non-metals are included in treated off-site waste management activity.

*** Excludes non-production-related releases; e.g. releases due to catastrophic events or remedial actions.

**** Transfers reported without a valid waste management code.

For More Information . . .

State Contact:

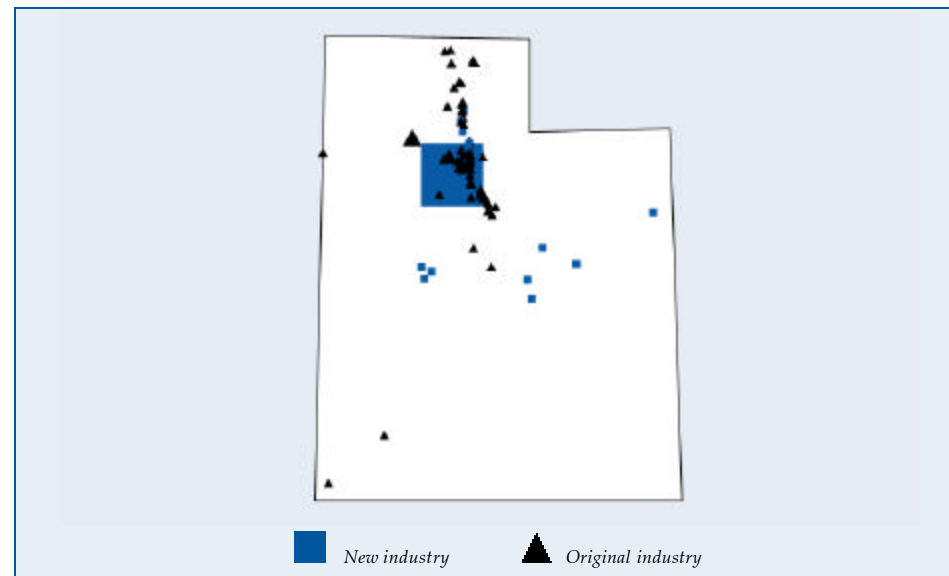
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To obtain TRI data use assistance, call TRI User Support Service (TRI-US):

(202) 260-1531
Fax: (202) 401-2347



The largest marker in the state map represents the largest facility for on-site releases in the state of Utah. All markers are proportionally-sized to represent the on-site releases at each facility within this state.

State/TRI Data

Population	2,099,758
Square Miles	82,168
Total Facilities	164
Total Forms	709
Form As	89

	Original Industries	New Industries	Total
National Rank for Total On- and Off-site Releases*			
Rank	7	3	3
Pounds	99,436,237	474,789,268	574,225,505
National Rank for Total On-site Releases**			
Rank	4	3	3
Pounds	98,488,814	474,524,093	573,012,907
National Rank for Total Releases within State***			
Rank	7	3	3
Pounds	102,547,098	474,751,632	577,298,730
National Rank for Production-related Waste Managed			
Rank	21	3	11
Pounds	359,758,919	546,084,294	905,843,213

* Includes transfers out-of-state for disposal. Excludes transfer amounts sent for disposal to other TRI facilities reporting that amount released on-site.

** Includes amounts released at the facility. Excludes amounts transferred to other sites.

*** Excludes transfers for disposal sent out-of-state or sent to other TRI facilities within the state reporting that amount released on-site.



1998 Toxics Release Inventory

UTAH

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Original Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
7782-50-5	Chlorine	55,335,414	0	0	10,580	0	55,345,994	0	0	0
—	Copper compounds	87,445	750	0	11,000,423	75,684	11,164,302	76,509	398,053	54,336
—	Zinc compounds	17,218	3,218	0	7,423,086	2,754,663	10,198,185	1,654,475	3,098,875	2,202,610
—	Arsenic compounds	30,250	1,200	0	6,200,250	0	6,231,700	121,495	164,000	0
—	Lead compounds	86,143	278	0	5,300,288	193,144	5,579,853	2,095,342	331,643	190,894
7647-01-0	Hydrochloric acid	3,331,325	0	0	20,350	0	3,351,675	0	0	0
—	Nitrate compounds	146	1,100,005	0	1,321,098	0	2,421,249	3,259	0	0
—	Nickel compounds	1,656	750	0	2,160,028	3,818	2,166,252	110,265	7,448	3,818
—	Manganese compounds	3,759	250	0	531,710	234,993	770,712	134,477	366,480	234,944
7664-41-7	Ammonia	121,976	8,741	0	414,750	750	546,217	89	750	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.

On-site and Off-site Releases for Top Ten Chemicals Ranked on Total Releases in the State (Seven New Industries)

CAS Number	Chemical	On-site Releases				Off-site Releases	Total Releases in the State**	Off-site Transfers to Disposal		
		Air Emissions Pounds	Surface Water Discharges Pounds	Underground Injection Pounds	On-site Releases to Land Pounds	Transfers Off-Site to Disposal* Pounds		Transferred Into State Pounds	Transferred Within State Pounds	Transferred Out of State Pounds
—	Copper compounds	9,101	2,810	0	299,427,327	2,707	299,441,945	0	81,791	1,700
—	Manganese compounds	3,072	265	0	57,215,504	133,470	57,352,311	0	128,970	4,500
—	Arsenic compounds	1,544	250	0	50,495,620	272	50,497,686	2	42,946	141
—	Zinc compounds	3,576	6,215	0	24,009,428	31,625	24,050,844	2	64,710	3,200
—	Lead compounds	1,626	250	0	17,272,863	4,959	17,279,698	379	26,253	1,013
—	Chromium compounds	2,218	255	0	9,167,209	16,081	9,185,763	34	50,433	3,203
—	Barium compounds	4,081	183	0	2,386,374	41,006	2,431,644	1	12,005	29,001
—	Nickel compounds	1,583	2,100	0	2,248,251	679	2,252,613	0	247	432
7647-01-0	Hydrochloric acid	2,051,252	0	0	0	0	2,051,252	0	0	0
7440-39-3	Barium	2,658	0	0	1,709,137	0	1,711,795	0	0	0

* Excludes amounts transferred to other TRI facilities in the state reporting that amount released on-site.

** The chemical ranking is based on the amounts in this column.



1998 Toxics Release Inventory

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On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Original Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Magnesium Corp. of America, Rowley, Tooele	57,691,060	0	0	0	0	0	57,691,060	0	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	314,180	8,305	0	0	0	33,602,000	33,924,485	570,910	0
Geneva Steel, Vineyard, Utah	132,680	1,122,309	0	0	0	579,841	1,834,830	0	0
Westinghouse Electric Co., Western Zirconium, Ogden, Weber	197,000	0	0	0	0	1,578,500	1,775,500	0	0
Thiokol Propulsion, Corinne, Box Elder	1,012,000	0	0	0	0	0	1,012,000	229	0
Pacific States Cast Iron Pipe Co., Provo, Utah	4,315	0	0	0	0	168,309	172,624	0	0
U.S. Air Force Ogden Air Logistics Center, Hill AFB, Davis	122,219	0	0	0	0	0	122,219	36,621	32,736
Gossner Foods Inc., Cheese Plant, Logan, Cache	0	0	0	0	0	119,748	119,748	0	0
Becton Dickinson, Sandy, Salt Lake	110,000	0	0	0	0	0	110,000	0	0
Alliant Aerospace Co., Bacchus Works, Magna, Salt Lake	97,693	0	0	0	0	0	97,693	16	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.

On- and Off-site Releases for Top Ten Facilities Ranked on Total On-site Releases in the State (Seven New Industries)

Facility, City, County	On-site Releases						Total On-site Releases* Pounds	Off-site Releases (Transfers Off-site to Disposal)	
	Underground Injection			On-site Releases to Land				Transferred Within State Pounds	Transferred Out of State Pounds
	Air Emissions Pounds	Surface Water Discharges Pounds	Class I Wells Pounds	Class II-V Wells Pounds	RCRA Subtitle C Landfills Pounds	Other On-site Land Releases Pounds			
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	25,576	14,735	0	0	0	405,344,455	405,384,766	3,450	0
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	17,510	0	0	0	0	37,000,000	37,017,510	0	0
Safety Kleen (Lone & Grassy) Inc., GMF, Grantsville, Tooele	688	0	0	0	14,428,767	858,502	15,287,957	15,062	236
Barrick Resources USA Inc., Mercur Gold Mine, Stockton, Tooele	653	7	0	0	0	5,232,810	5,233,470	0	0
Pacificorp Huntington Plant, Huntington, Emery	937,249	0	0	0	0	1,066,370	2,003,619	7,124	7
Pacificorp Hunter Power Plant, Castle Dale, Emery	1,256,301	0	0	0	0	700,021	1,956,322	6,861	44,134
Bonanza Power Plant, Vernal, Uintah	90,151	0	0	0	0	1,820,219	1,910,370	0	0
Intermountain Power Station, Delta, Millard	150,300	0	0	0	0	1,658,100	1,808,400	0	0
Brush Wellman Inc. — Mill, Delta, Millard	489,755	0	0	0	0	977,395	1,467,150	0	0
Envirocare of Utah Inc., Grantsville, Tooele	0	0	0	0	1,106,400	0	1,106,400	0	0

*The facility ranking is based on the amounts in this column; these quantities exclude transfers out of state.



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Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Original Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Magnesium Corp. of America, Rowley, Tooele	4,500	0	0	0	219,000,000	0	57,432,100	276,436,600	0
Kennecott Utah Copper Smelter & Refy., Magna, Salt Lake	0	0	0	0	1,250	0	25,711,450	25,712,700	8,734,961
Nucor Corp., Nucor Steel, Plymouth, Box Elder	0	18	0	0	0	3	6,570,815	6,570,836	0
Geneva Steel, Vineyard, Utah	0	0	0	0	722,900	2,038	1,834,030	2,558,968	0
Westinghouse Electric Co., Western Zirconium, Ogden, Weber	0	0	0	0	7,107,000	0	1,774,704	8,881,704	0
Thiokol Propulsion, Corinne, Box Elder	0	87,721	0	0	329	0	996,301	1,084,351	44
Parish Chemical Co., Vineyard, Utah	0	0	0	0	0	312,560	326,972	639,532	0
U.S. Air Force Ogden Air Logistics Center, Hill A F B, Davis	1,440	66,400	0	24,200	18,000	59,100	191,201	360,341	18
Johnson Matthey, Salt Lake City, Salt Lake	0	0	0	0	277,896	0	183,235	461,131	0
Pacific States Cast Iron Pipe Co., Provo, Utah	0	0	0	0	0	0	172,641	172,641	0

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.

Total Production-related Waste for Top Ten Facilities Ranked on Quantity Released On- and Off-site (Seven New Industries)

Facility, City, County	Recycled On-site Pounds	Recycled Off-site Pounds	Energy Recovery On-site Pounds	Energy Recovery Off-site Pounds	Treated On-site Pounds	Treated Off-site Pounds	Quantity Released On- and Off-site* Pounds	Total Production-related Waste Managed Pounds	Total Non-Production-related Waste Managed Pounds
Kennecott Utah Copper Mine Concentrators & Power Plant, Copperton, Salt Lake	0	0	0	0	0	0	409,062,200	409,062,200	22
Kennecott Barneys Canyon Mining Co., Bingham Canyon, Salt Lake	0	0	0	0	0	0	37,017,000	37,017,000	0
Safety Kleen (Lone & Grassy) Inc., GMF, Grantsville, Tooele	0	0	0	0	0	46,445	15,246,277	15,292,722	28
Barrick Resources USA Inc., Mercur Gold Mine, Stockton, Tooele	1,200	0	0	0	240	0	5,233,470	5,234,910	0
Pacificorp Hunter Power Plant, Castle Dale, Emery	0	0	0	0	38,600,000	0	2,802,000	41,402,000	0
Pacificorp Huntington Plant, Huntington, Emery	0	0	0	0	1,050,000	0	2,013,000	3,063,000	0
Bonanza Power Plant, Vernal, Uintah	0	0	0	0	0	0	1,910,365	1,910,365	0
Intermountain Power Station, Delta, Millard	0	0	0	0	4,488,500	0	1,815,000	6,303,500	0
Brush Wellman Inc. — Mill, Delta, Millard	6,038,200	0	0	0	85,400	0	1,440,100	7,563,700	0
Sunnyside Cogeneration Associates, Sunnyside, Carbon	0	0	0	0	0	0	1,147,368	1,147,368	7

*The facility ranking is based on the amounts in this column; these quantities exclude non-production-related releases.